

Information for File #2004-159932-BAJ

Applicant: Joe VanOverbeke
Corps Contact: Bradley A. Johnson
Address: 190 Fifth Street East
Saint Paul, MN 55101-1638
E-Mail: brad.a.johnson@mvp02.usace.army.mil
Primary County: LYON, MN
Section: 32
Township: 111 N
Range: 41W
Information Complete On: 16-NOV-2004
Posting Expires On: 31-March-2005
Authorization Type: MN LOP-B

PROJECT DESCRIPTION

The applicant is seeking authorization to place fill material into .48 acres of wetlands and an unnamed tributary to the Cottonwood River for the construction on an earthen dam for flood control and creation of a wildlife pond. A .07-acre wetland would be impacted by construction of the dam and .41-acre-wetland would be impacted by inundation in the permanent pool.

The wetland basins impacted by the dam consist primarily of the intermittent tributary and adjacent seasonally-flooded, wet to wet-mesic areas, dominated by reed canary grass and angelica. Adjacent upland vegetation includes big bluestem, goldenrod, smooth brome, chokecherry and snowberry.

The dam is designed using NRCS standards in order to qualify for Environmental Quality Incentive Program. The applicant states the project would reduce sediment and nutrients from entering the downstream areas, improve wildlife and waterfowl. Lake Marshall is downstream of the project area and project sponsors believe the project would improve the water quality by reducing velocity of floodwaters and sediment loads into the lake.

The applicant had entered into an agreement with Marshall Municipal utilities to construct two wind turbine generators to the south of this dam. The top of the dam would serve as an access road for construction and maintenance of the generators, an additional purpose of this project. Construction of the wind turbines is scheduled for January 2005.

Approximately 20,000 cubic yards of material would be excavated to build the earthen structure. Dimensions would be 30 feet high, 190 feet wide and 320 feet long. The footprint of the dam including uplands would be 35, 000 square feet (.8 acres), and 2 acres by the permanent pool.

Alternatives

The no action alternative would result in no reduction of floodwaters and associated annual damage. The area would stay as unused pasture (wet to mesic prairie) and would not create the deep-water wetland habitat.

A smaller structure would result in less flood reduction and reduce the possibility of funding. The flood pool for waterfowl habitat would be smaller

Mitigation

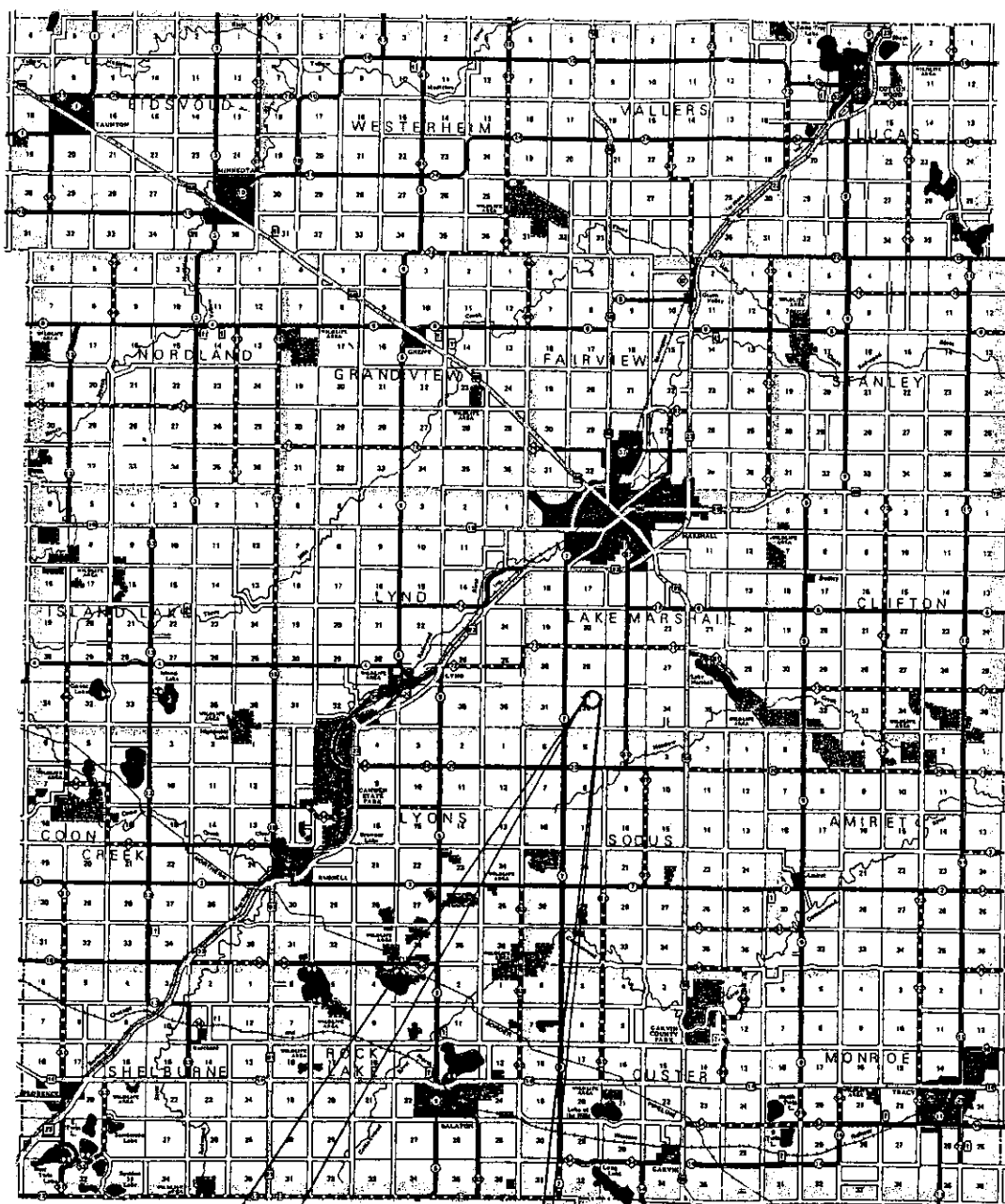
On site mitigation is proposed by the applicant. See drawings provided.

AREA II MINNESOTA RIVER BASIN PROJECTS INC.

COUNTY OF LYON

LAKE MARSHALL 32 SMALL DAM PROJECT

CONSTRUCTION PLANS FOR 24" RCP CULVERT MAIN, 48" MANHOLE RISER AND EMBANKMENT
LOCATED IN SECTION 32 LAKE MARSHALL TOWNSHIP 3.5 MILES SOUTH OF MARSHALL MN, IN LYON COU
DRAINAGE AREA = 1150 ACRES



WRP 04-3
LAKE MARSHALL 32 WATER RETENTION PROJECT

Marshall

Airport
Hd)

63

348

COUNTY

23

370

LAKE MARSHALL

350

PROJECT
LOCATION

382

31

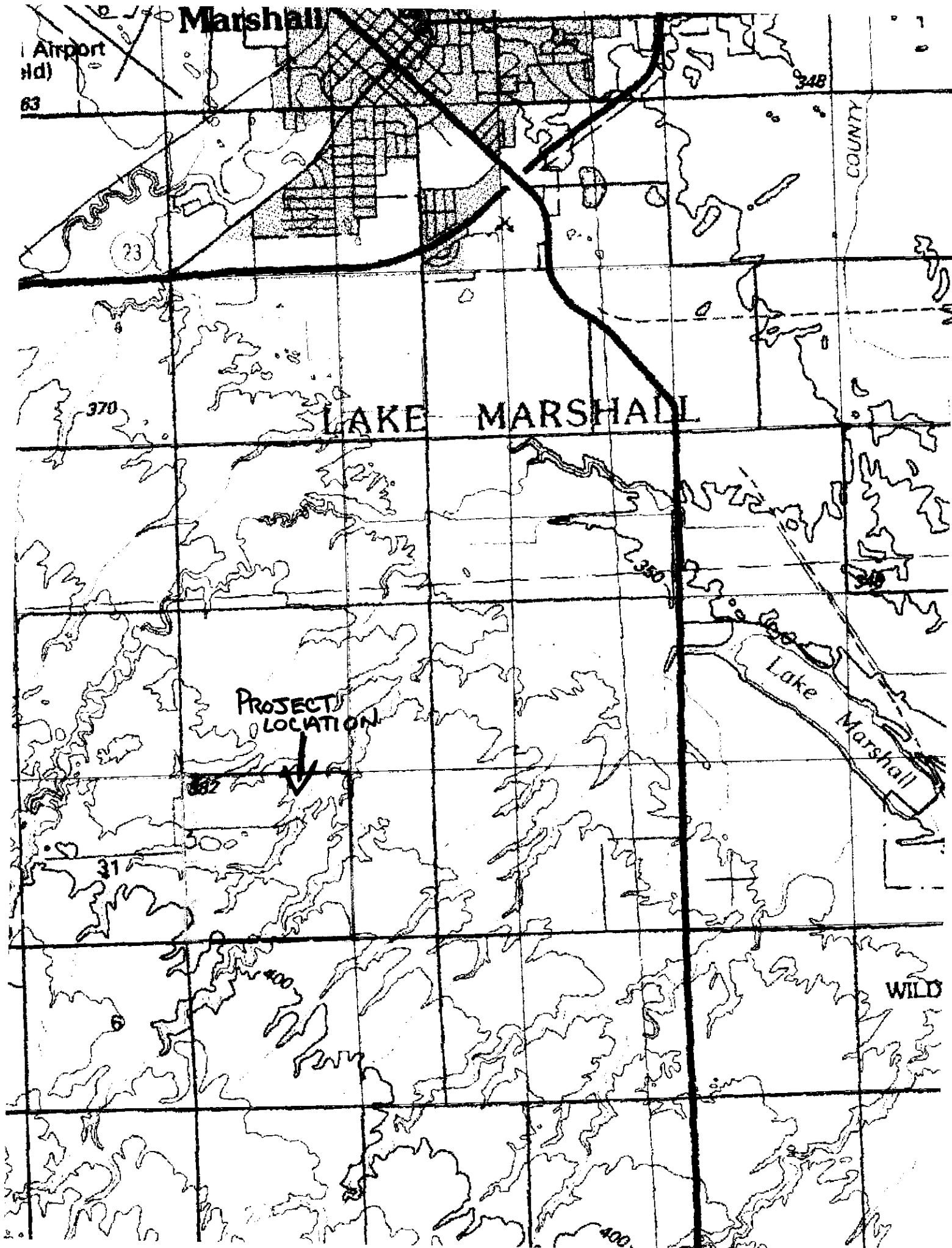
6

400

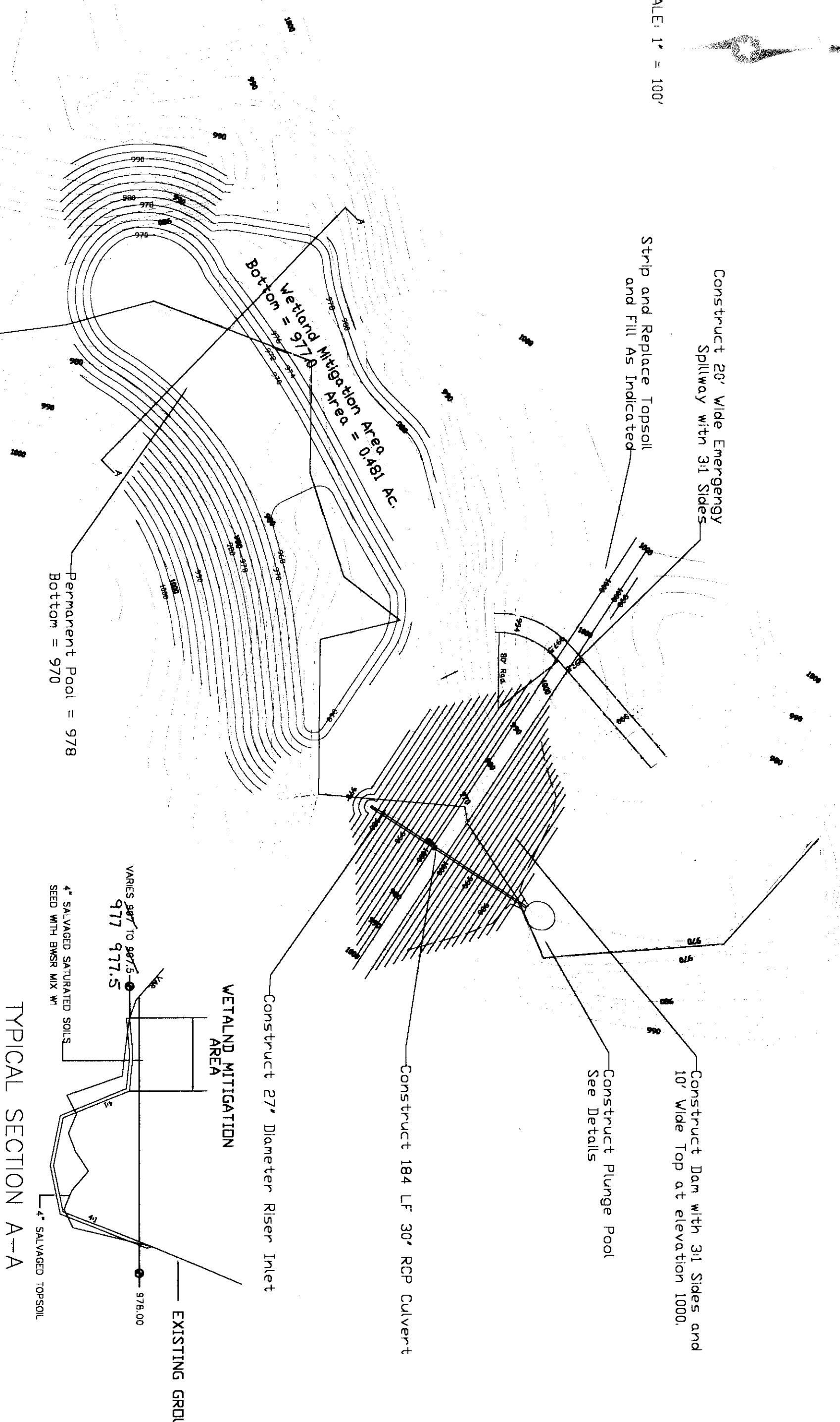
400

Lake Marshall

WILD



SCALE: 1" = 100'



TYPICAL SECTION A-A

DESIGNED BY		CHECKED BY		DATE	
JWH		JWH		14972	
SIGNED		DATE			
JWH		14972			
PROJECT		SHEET #			
LAKE MARSHALL 32 SMALL DAM		4 OF 7			
LYON COUNTY, MINNESOTA		PLAN SHEET			
1400 East Lyon Street					
Marshall, MN 56258					
(507) 537-6369					